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WV RISK EXPLORER <i>Localized risk assessment tools for analysis and visualization</i>		
<i>Resource</i>	<i>Type</i>	<i>Description</i>
<< OVERVIEW >>		
Website	Web	WVRE Website (https://www.wvfrf.org/wvre) Home
Flyer	PDF	WVRE Overview
Video 1	MP4	WVRE 2-Minute Video
Video 2	MP4	WVRE 20-Minute Video
HMP Guide	PDF	WVRE Resources for Hazard Mitigation Planning (HMP) – <i>in update</i>
<< RISK FACTORS >>		
Technical Guide	PDF	WVRE Technical Documentation (includes Description, Rationale & Recommendations of Risk Indicators)
Diagram	PDF	WVRE Riverine Flood Risk Factors
Data Dictionary	PDF	WVRE Data Dictionary (Metadata) of Risk Indictors
Risk Factor Resources	PDF	Resource Index to Static Map Graphics of each flood risk factor; Reports/Slides published for certain risk indicators
Download Risk Data	WEB	WVRE Data Download of Risk Indicators

RISK ASSESSMENTS		
<i>Riverine Flood Risk Studies and Rankings</i>		
<< STATEWIDE ASSESSMENTS >>		
<i>Risk Findings Report</i>	PDF	<i>Riverine Flood Risk Findings for West Virginia (in development)</i>
WV Flood Risk Stats	Web	Statewide Online Flood Risk Report & Graphics
WV Risk Assessment Poster	PDF	Statewide Flood Risk Assessment Statistics
Fast Facts	PDF	30 Fast Facts about Riverine Flooding in West Virginia
<< LOCAL ASSESSMENTS >>		
Local Risk Studies	HL	Local Risk Study Reports accessible via WV Hazard Library
Building: Marlinton	Web	Example WV Flood Tool displaying building-level risk for Marlinton
Community: Marlinton	Web	Flood risk reports at higher aggregate scales of community, county, and region. Example <i>All Risk Indicators Report</i> for town of Marlinton.
• All Risk Indicators		
• Top 20% Indicators	Web	Example <i>Top 20% Risk Indicators Report</i> for Marlinton
• Risk Comparison	Web	Example <i>Risk Comparison Report</i> of Marlinton to other municipalities
County: Pocahontas	Web	Example <i>County Report</i> with community sub entity rankings
Region: PDC 4	Web	Example <i>Regional Report</i> with county-community sub entity rankings
<< TOP RANKINGS >>		
Top 10% Summary	PDF	Top 10% Cumulative Rankings of 7 Geographic Scales
Top 20% Summary	PDF	Top 20% Cumulative Rankings for 7 Geographic Scales
Top 6 Entity Rankings	PDF	Top 6 Entity Rankings for All Risk Factors at Multiple Scales
Top Primary Structures	Web	Top Primary Structures with highest FEMA-mapped 1% (100-Yr) flood depths
Top Significant Structures	Web	Top Significant Structures (Essential Facilities, Community Assets) with highest flood depths
<< COMPARATIVE RANKINGS>>		
11 PDC Regions	Web	Comparison Risk Web Report of 11 PDC Regions
55 Counties	Web	Comparison Risk Web Report of 55 Counties
284 Communities	Web	Comparison Risk Web Report of 284 Communities
229 Incorporated Places	Web	Comparison Risk Web Report of 229 Incorporated Places
55 Unincorporated Areas	Web	Comparison Risk Web Report of 55 Unincorporated Areas
33 Watersheds	Web	Comparison Risk Web Report of 33 Watersheds
156 Rivers / Streams	Web	Comparison Risk Web Report of 156 River/Streams

METHODOLOGY		
<i>Learn more about flood risk assessment methodology and floodplain building inventory</i>		
Report	Web	WV Flood Risk Assessment Methodology using Detailed Floodplain Building Inventory
Table	Web	WV Statewide Flood Risk Model Overview
Diagram	Web	Floodplain Building-Level Risk Assessment (BLRA) Update Cycle
Diagram	Web	Floodplain Building-Level Risk Assessment (BLRA) Workflow
Diagram	Web	10 Geographic Scales of Analytical & Visualization Tools for Risk Assessments and Mitigation Measures

DASHBOARDS		
<i>Interactive dashboards to analyze risk factors and mitigation measures</i>		
<< BUILDING RISK ASSESSMENT >> Building Risk Assessment Dashboards for 6 geographic scales		
11 PDC Regions	Web	PDC Regions Scale Risk Assessment Dashboard
55 Counties	Web	County Scale Risk Assessment Dashboard
229 Communities	Web	Community Scale Risk Assessment Dashboard
33 Watersheds	Web	Watershed Scale Risk Assessment Dashboard
156 Rivers/Streams	Web	River/Stream Scale Risk Assessment Dashboard
Buildings in High-Risk Floodplains	Web	Building Scale Risk Assessment Dashboard
<< MITIGATION >> Dashboards of Mitigated Structures and Open Space Preservation		
Mitigated Structures	Web	Inventory of Mitigated Structures Dashboard
Mitigated Buyouts	Web	Mitigation Open-Space Buyouts & Community-Owned Parcels
<< FLOOD FATALITIES >> Dashboards of flood fatalities and post-disaster mitigation		
Flood Fatalities by Disaster Fatalities	Web	12 Deadliest Flood Disasters from 1870 to 2016, and Post-Disaster Mitigation Measures Implemented
Flood Fatalities by County	Web	Flood Fatalities by County including recent flood deaths

FLOOD VISUALIZATIONS		
<i>Communicate flood risk with 3D and 2D visualizations</i>		
Flood Visualizations	HL	All Flood Visualizations (3D Movies, Viewshed, Building Profiles, Story Maps) for effective risk communications
• 3D Movies	HL	Community-scale 3D flood movies for a major 1% annual chance (100-year) storm
• Viewsheds	HL	Bird's eye view flood visualizations of different storm frequencies and magnitudes
• Building Profiles	HL	Building-scale flood visualizations of different storm frequencies and magnitudes
• Story Maps	HL	Story maps of major flood events and lessons learned

WV FLOOD RESILIENCY FRAMEWORK <i>A virtual hub of risk assessment, visualization, planning, and training resources for building community flood resiliency in West Virginia</i>		
Website	Web	WVFRF Website (https://www.wvfrf.org)
Flyer	PDF	WVFRF Flyer
Video	MP4	WVFRF Video
Slides	PDF	WVFRF Elements
Hazard Library	Web	WVFRF Hazard Resources
• Hazard Plans	HL	Search all Hazard Plans
• Guidance Documents	HL	Search Guidance Documents
• Floodplain Mgmt.	HL	Search Key Resources for Floodplain Managers
• Risk Assessments	HL	Search all Flood Risk Assessments
• Other Hazards	HL	Search Other Hazards
• Meeting Events	HL	Search all Meeting Events
Web Risk Tools	HL	Search Web Risk Tools
• 298K High-Risk Parcels	Web	298K Parcels Intersect FEMA's High-Risk (1%) Flood Zones (WV Property Viewer)
• 48K Moderate-Risk Parcels	Web	48K Parcels Intersect FEMA's Moderate-Risk (0.2%) Floodplains (WV Property Viewer)
• 98K Structures ◦ WV Flood Tool ◦ WVRE BL Tool	Web	98K Primary Structures in High-Risk Floodplains (WV Flood Tool's RiskMAP View or WV Risk Explorer's Primary Structures Building-Level Risk Tool) which provide Hazus building-level risk assessment and flood visualization of each structure.

Compiled 12/5/2025 by Kurt Donaldson